

FIG. 1

$$Si_2Cl_6 + 10NH_3 \rightarrow Si_2N_4H_6 + 6NH_4Cl$$

FIG. 2A

$$Si_2Cl_6 + 9NH_3 \rightarrow Si_2N_3H_3 + 6NH_4CI$$

FIG. 2B

$$3Si_2Cl_6 + 8NH_3 \rightarrow 2Si_3N_4 + 18 HCl + 3H_2$$

FIG. 2C

$$3Si_2I_4 + 4NH_3 \rightarrow Si_3N_4 + 12HI$$

FIG. 2D



FIG. 3

FIG. 4

FIG. 5

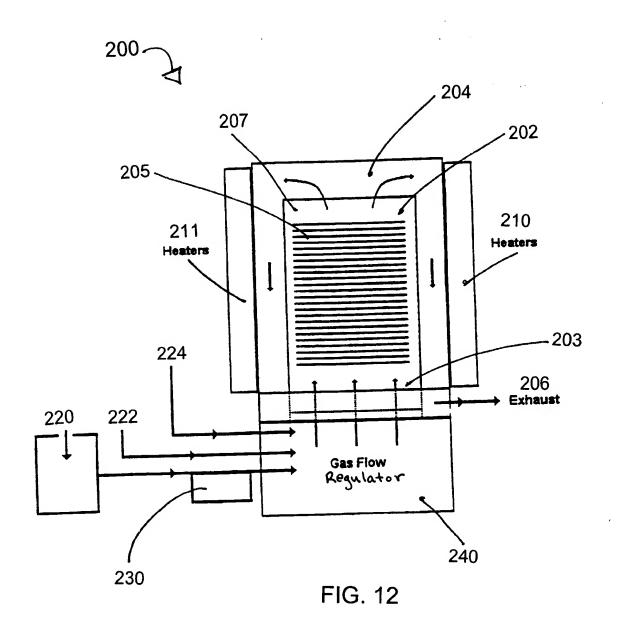
FIG. 6

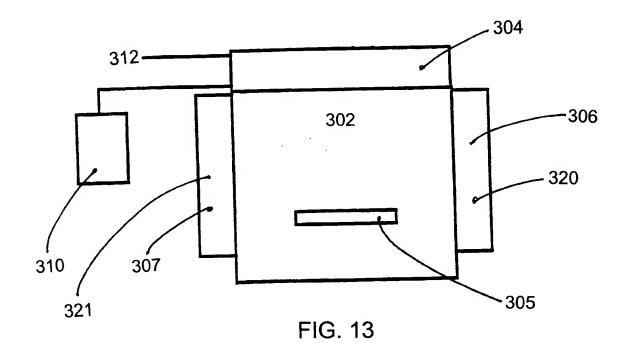
FIG. 7

FIG. 9

FIG. 10

FIG. 11







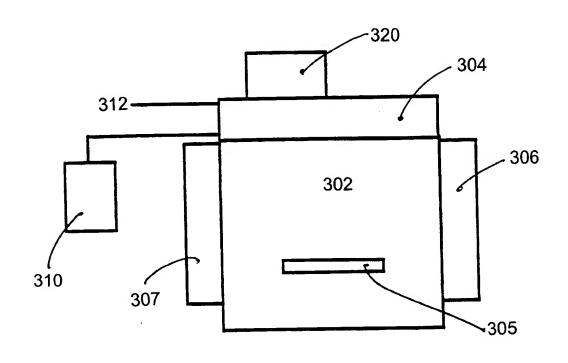


FIG. 14

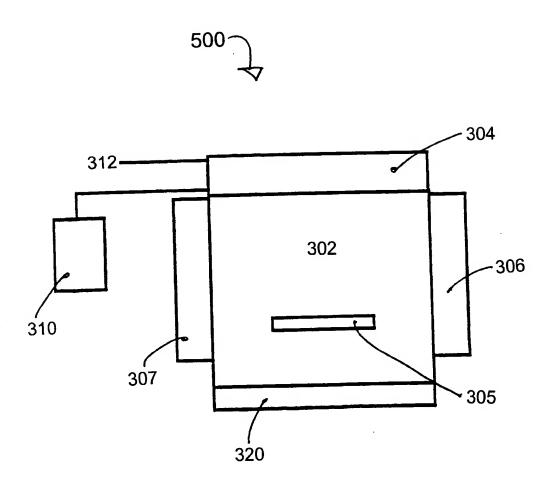


FIG. 15

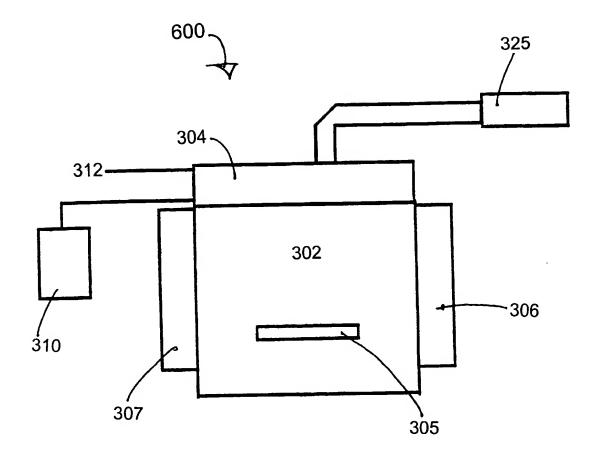


FIG. 16

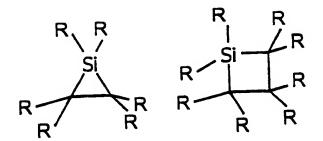


FIG. 17

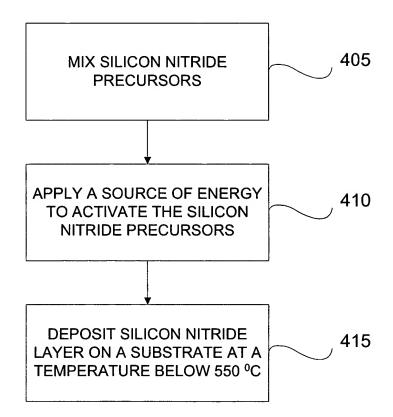


FIG. 18

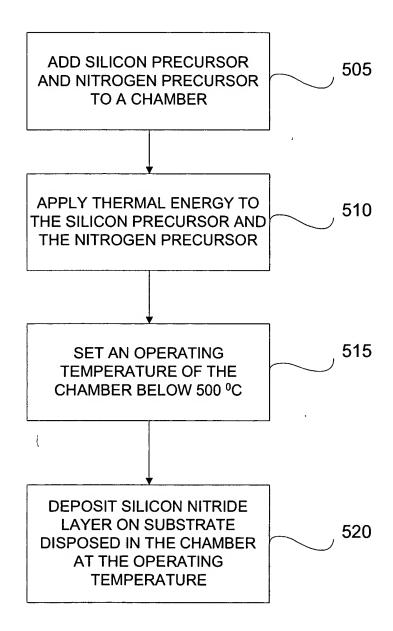


FIG. 19

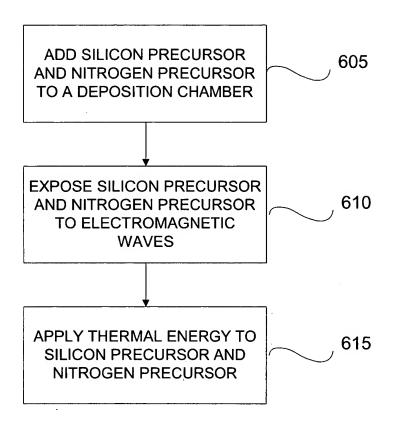


FIG. 20